DAS ENGLISH LANGUAGE
LCD CODE PAD
INSTALLATION MANUAL

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GENERAL DESCRIPTION

The DAS Liquid Crystal Display (LCD) code pad has been designed to provide step-by-step English language information to the system user. When user action is required, the backlit, 2-line, 32 segment LCD display gives simple, specific, easy to understand instructions. The drawing below highlights all major elements of the code pad. When reference is made to the **"SmartBuss"**, it applies to LCD code pads attached to the DL-250 and DL-300 panels programmed for "SmartBuss".

1. ARMED LIGHT (RED): Stays on continuously when control is armed. Blinks to indicate an alarm has occurred. (Alarm Memory)

2. SECURE LIGHT (GREEN): On when all zones are secured or isolated.

3. POWER LIGHT (RED): On when A.C power is present. Flashing for low battery.

4. AUXILIARY 1 KEYS [1] and [3]: If enabled, these keys, when pressed at the same time, will activate the siren output and transmit the selected code.

5. AUXILIARY 2 KEYS [4] and [6]: If enabled, these keys, when pressed at the same time, will activate the code pad sounder and transmit the selected code.

6. PANIC KEYS [These keys, when pressed at the same time , will activate the siren output (if not programmed for silent operation) and transmit the selected code.

7. RESET KEY [#]: Used to power down smoke and/or auxiliary power for 10 seconds to allow for reset. Provided other functions in the program mode. (page 11)

8. STAR KEY [Used before and after selected zones number keypress to isolate zones. Also provides other functions in program mode. (page 11)

9. SPECIAL FUNCTION KEYS [A], [B], [C], [D]: The keys allow access to special functions in the run mode. They also allow the installer to preform programming functions as detailed in the appropriate sections of the booklet.

10. ADJUSTABLE SOUNDER: Provides an audible out when a key is pressed, during pre-alarm, and when trouble or certain alarms occur.

POWER UP INFORMATION

Always disconnect the A.C. and battery power before connecting the LCD code pad to the DAS security control. Connect the four wires on the code pad to the appropriate terminals on the DAS Security Control selected for this installation. After connection is complete and upon power-up of the Security Control, the LCD code pad will display the current status of the security system. If all zones are secure, the message will look as follows:

If a zone is open, the following message will be displayed:

When the above message is displayed and the **[A]** key is pressed, the LCD screen will display the zone number, condition, and custom message (if any) of faulted and/or isolated zone as shown below:

If a zone(s) is isolated, the following message will be displayed:

When the above message is displayed and the **[A]** key is pressed, the LCD screen will display in sequence the zone number(s) and custom name of the isolated zone(s) as shown below:

A custom system message can be programmed separately for both lines of the LCD as shown below. (see page 9)

PROGRAMMING THE LCD CODE PAD

The DAS LCD Code Pad can be customised to individual installation requirements by utilising the LCD code pad programming mode. In some areas the LCD screen will advance automatically, however, where noted you must press **[#]** to save and move to the next programming option.

ENTERING LCD PROGRAM MODE

To enter the program mode, type: **C** **0** **0**

The LCD screen will now display:

```
ENTER FOUR DIGIT
 C  O  D  E
```

Now type the four digit "Go To Program Code" that is programmed in the LCD code pad.
NOTE: If the LCD code pad "Go To Program Code" is unknown, refer to "Factory Defaulting the LCD Code pad" on page 11.

Factory default is: **9** **0** **5** **0**

The LCD screen will now display:

```
      PROGRAM
1=KEYPAD 2=PANEL
```

To enter the "Code pad" custom programming mode, press: **1**

To choose "PANEL" programming, press **[2]** and refer to "Control Panel Programming from the LCD Code pad" on page 11.

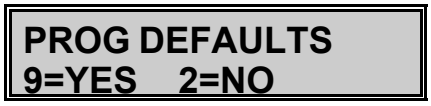
SELECTING PANEL TYPES

Select the number which corresponds to the panel being programmed. "AUST" refers to all panels manufacturered for Australian use.

```
PANEL     1=8900
2=AUST  3=OTHER
```

THE DEFAULT SCREEN

The following screen is used to default ALL code pad programming back to original factory default, or to continue custom programming of the LCD code pad:



YES - Choosing "YES" from this screen will convert ALL previously entered code pad programming to their default values and default the "Go To Program Code" to **[9]-[0]-[5]-[0]**.

NO - Choosing "NO" will allow the continuation of LCD custom programming, while retaining any custom programming that has already been done.

SOUNDER VOLUME ADJUSTMENT:

The code pad sounder volume level can be adjusted from the following screen by selecting an entry from **[1]-[7]**. To turn the sounder off, press **[9]**.

It is possible to scan through levels 1 thru 7 to hear all the different levels available. Once the desired level is found, continue programming by pressing:

CUSTOM MESSAGE ENABLE:

If desired, a 2-line, 32-character custom message can be displayed on the LCD screen. The programming of the custom message can be performed later in the programming table, but only if you choose "YES from the following screen.

FAIL TO COMMUNICATE MESSAGE:

From the following screen, choose "YES" or "NO" for display of the "FAILURE TO COMMUNICATE" message when a related communication fault occurs. Refer to your control panel installation manual for more details regarding communication fault detection features.

LED EXTINGUISH FEATURE:

If desired, all code pad lighting (except touchpad backlighting) may be extinguished after 60 seconds of code pad inactivity. Extinguished lighting will become illuminated immediately upon any keypress or change of condition.

NOTE: The touchpad backlighting can only be extinguished by pressing **[B]-[0]**. Refer to the User Manual for more detail.

Press **1** to enable the "LED EXTINGUISH" feature.

Press **2** to disable the "LED EXTINGUISH" feature.

SUPPRESS ZONE STATUS:

Under normal conditions, the code pad LCD screen will display the zones that have created the alarm. The display of the faulted zones can be suppressed by entering the appropriate number from the screen below. When this feature is selected, the LCD screen will display "SYSTEM ARMED" even during an alarm condition.

Press **1** to "Suppress Zone Status" during an alarm.

Press **2** to display zone status during an alarm.

EXITING THE PROGRAM MODE

From this point forward, you can exit the program mode by entering the following keypresses:

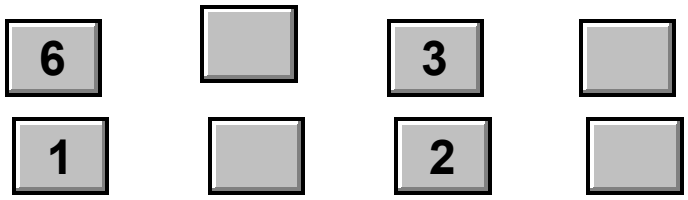
To exit programming, press: **9** **3** **0** **#**

LCD GO TO PROGRAM CODE:

The LCD code pad is factory defaulted with a 4 digit "Go To Program Code", **[9]-[0]-[5]-[0]**which permits entering the programming mode. This "Go To Program Code" can be changed from the screen below:

PROGRAM CODE
9050

The desired new code must be entered one digit at a time, following each digit with the **[** key. For example, to change this code to **[6]-[3]-[1]-[2]**, you must be viewing the screen above, and follow the keypresses below.



The LCD screen should now display:

PROGRAM CODE
6312

Once programming is complete, advance to the next screen by pressing **#**

CUSTOM MESSAGE DISPLAY:

If you selected the " CUSTOM MESSAGE" option earlier in programming, the screen below will be displayed for programming "LINE 1"(the top line) of your custom message. To program or change a code pad custom message, refer to "Programming Custom Text" on page 9.

CUST MESS-LINE 1
CUST MESS-LINE 1

Once programming is complete, advance to the next screen by pressing **#**

Now, the screen below should appear for the programming of "LINE 2" (the bottom line).

CUST MESS-LINE 2
CUST MESS-LINE 2

Once programming is complete, advance to the next screen by pressing **#**

ZONE TYPES (FIRE OR BURGLARY):

Two types of messages can be displayed when programming custom zone messages. When using a 60EL, 200 and 250 Series panels in the non-SmartBuss mode, the code pad is unable to determine the zone type (Burglary or Fire) you have selected in the panel programming for each of the zones, so a screen will be displayed for each zone of the control panel being programmed. When these screens are displayed, pressing the **[** will toggle the zone type from "BURGLARY" to "FIRE". The zone type selected will be displayed in the run mode when zone information is being displayed. This screen will not appear for panels using "SmartBuss mode.

ZONE 01=BURG T Y P E

OR

ZONE 01=FIRE TYPE □ TO TOGGLE

Once programming is complete, advance to the next screen by pressing **#**

CUSTOM ZONE DESCRIPTIONS

You choice of custom zone descriptions can be programmed for each zone of the system being programmed. The screen below is an example of the screen that would be displayed for this programming. You will notice that Zone 1 was selected as a "BURGLARY" type (see top line of display). The bottom line is where the custom description will appear. If custom zone descriptions are not programmed, the bottom line will simply display the zone and its number.
For programming these custom descriptions, refer to "Programming Custom Text", below.

ZONE 01=BURG ZONE 1

OR

ZONE 01=BURG FRONT DOOR

PROGRAMMING CUSTOM TEXT

Programming custom text refers to "Custom Messages" (if applicable) and "Custom Zone Descriptions". When you are first presented with any message, the top line always displays the Default, and the bottom line is where the editing takes place. To program Zone 1 with the custom word "Entry Door", study the "Special Function Keys"and refer to the "Character Conversion List", and the "Library List" on page 10 while following the examples below.

When beginning programming of Zone 1 description the screen below will appear:

ZONE 01=BURG ZONE 1

Press **D** six times to delete the six character bottom line default listing (Zone 1).

ZONE 01=BURG

With our description to be "ENTRY DOOR", refer to the "Character Conversion List" to begin spelling "ENTRY". You will see that the first character which is an "E" is entered by using the [**5**] key. The **[** key will save the "E" on screen while moving the cursor ahead to the next character location.

Press **5** **[** and you will see the screen below:

```
ZONE 01=BURG
E
```

Continue this spelling process until the word "ENTRY" is complete, and then press the **[** key to insert a space. The cursor should now in position for the word "DOOR".

```
ZONE 01=BURG
ENTRY
```

Since "DOOR" is a word in the Library List, you can choose the word in lieu of spelling it. Refer to the "Character Conversion List" for the number that corresponds to "D" which is the **[4]** key. Type **[4]-[A]** to take you to the "Words Beginning With D" category in the "Library List". Use the **[B]** key to scroll through all the words in this category. When the word "DOOR" appears on screen, press the **[** key to save it. The screen will now appear as below:

```
ZONE 01=BURG
ENTRY DOOR
```

Now that you have completed programming the "Custom Zone Description" for Zone 1, you can to advance to the next zone(s) to be customized by pressing:

#

COPY CODE PAD MESSAGES:

When using the LCD code pad with DL-250 or DL-300 in the SmartBuss mode, "COPY MESSAGE" will be displayed after you press **[9]-[3]-[0]-[#]** to save and exit. This feature enables you to copy all custom messages to any other LCD code pad in the system.

```
COPY MESSAGES
1=YES  2=NO
```

Press **1** to "Copy Messages" throughout the system code pads.

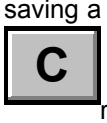
Press **2** to **NOT** "Copy Messages" throughout the system code pads.

SPECIAL FUNCTION KEYS

Library Key - To enter the library mode, pressing the **[A]** key will take you to "Words That Begin With "A", or enter the desired category's numerical code (A=1 thru Z=26) followed by **[A]** to take you to a specific letter category. Any subsequent **[A]** keypress will advance you to the next letter category in the "Library List".

Scroll key - When a desired letter (A-Z) in the Library is reached with the **[A]** key, you can scroll through that category by using the **[B]** key.

Example: To program the word "DOOR", place the cursor where the word should begin. Press **[4]-[A]** or **[A]-[A]-[A]-[A]** to reach "Words That Begin With D" category. Scroll through the "D" words with the **[B]** key until the word "DOOR" appears on the screen and press the **[** key to save. To exit without saving a word, press the **[#]** key, and the screen will revert to its default.



Shift Key - The **[C]** key will insert a space at the cursor position and shift the remaining message to the right.

Delete Key - The **[D]** key deletes the character or space where the cursor is setting.

Save Key - The **[□]** key will save a character selected to the screen. This key will also move the cursor forward through the display screen.

CHARACTER CONVERSION LIST

The list below contains the characters that are available for the spelling of custom messages in the LCD code pad display. The characters are in **bold** text, while their numerical equivalent that would be entered during programming to obtain these characters are in standard form.

A = 1	**J = 10**	**S = 19**	**BKSP = 27**	*** = 35**	**0 = 60**
B = 2	**K = 11**	**T = 20**	**' = 28**	**+ = 36**	**1 = 61**
C = 3	**L = 12**	**U = 21**	**! = 29**	**, = 37**	**2 = 62**
D = 4	**M = 13**	**V = 22**	**# = 30**	**- = 38**	**3 = 63**
E = 5	**N = 14**	**W = 23**	**$ = 31**	**. = 39**	**4 = 64**
F = 6	**O = 15**	**X = 24**	**& = 32**	**/ = 40**	**5 = 65**
G = 7	**P = 16**	**Y = 25**	**(= 33**	**: = 41**	**6 = 66**
H = 8	**Q = 17**	**Z = 26**	**) = 34**	**? = 42**	**7 = 67**
I = 9	**R = 18**				**8 = 68**
					9 = 69

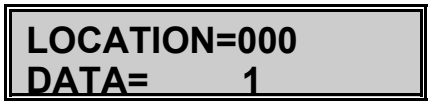
LIBRARY LIST

ALARM	FRONT	LIVING	SAFE	TROUBLE
AUDIO	GARAGE	MASTER	SECTOR	ULTRASONIC
BATHROOM	GLASSBREAK	MOTION	SENSOR	UPSTAIRS
BEDROOM	HALL	NURSERY	SHOCK	VAULT
CEILING	INFRARED	OFFICE	SIDE	WARE HOUSE
DETECTOR	INTERIOR	PANIC	SKYLIGHT	WINDOWS
DOOR	JUNK	PIR	SLIDING	X-RAY

EXTERIOR	KITCHEN	QUITE	SMOKE	YARD
FIRE	LIBRARY	ROOM	TAMPER	ZONE

PROGRAMMING THE CONTROL PANEL FROM THE LCD CODE PAD

The LCD code pad can be used to program the control panel. Simply select the "program control" mode by selecting option 2 on Display 1, as described in the programming instructions on page 4 of this booklet. The LCD screen will display location and data information as shown below:



The code pad will then perform programming functions exactly as an FS4597 programmer. Press the **[#]** key to advance to the next location. To change the data in a location, press the appropriate key(s) followed by the **[** key. Refer to the control panel installation manual for more detail.

NOTE: In partitioned systems, the code pad will not enter the program mode if any partition is in the "ARMED" state.

FACTORY DEFAULTING THE LCD CODE PAD

To factory default the LCD code pad, enter the "Program Code" and the LCD code pad will display the word "PROGRAMMER" on the top line. Then enter **[9]-[1]-[0]-[#]** which will default the LCD code pad. If the default attempt was successful, the LCD display will read:

NOTE: LCD code pads can also be defaulted by plugging an FS4597 programmer into the PC board and entering **[9]-[1]-[0]-[#]**.

DOWNLOADING THE LCD CODE PAD

The LCD code pad may be downloaded directly from the download software when used in conjunction with the DAS Downloadable Security Controls.

SPECIFICATIONS

OPERATING VOLTAGE	**12 VDC**
MAXIMUM CURRENT DRAW	**90 mA With Pre-Alarm** **70 mA Without Pre-Alarm**
CODE PAD DIMENSIONS	**6.45" Wide** **4.12" High** **1.00" Deep**
SHIPPING WEIGHT	**8 oz.**
COLOR	**Off White**
MATERIAL	**ABS Plastic**

FIVE YEAR LIMITED WARRANTY

DIRECT ALARM SUPPLIES GUARANTEES THIS PRODUCT AGAINST DEFECTIVE PARTS AND WORKMANSHIP FOR TWENTY-FOUR (24) MONTHS FROM DATE OF MANUFACTURING. IF ANY DEFECT APPEARS DURING THE WARRANTY PERIOD RETURN IT TO DAS, POSTAGE PREPAID. THE UNIT WILL BE REPAIRED AND RETURNED.

FOR THE REMAINING 36 MONTHS OF WARRANTY, THE UNIT WILL BE REPAIRED FOR A FEE NOT TO EXCEED $20.00 PLUS SHIPPING AND HANDLING.

DAS ASSUMES NO LIABILITY FOR CONSEQUENTIAL OR INDIRECT DAMAGE AND ACCEPTS NO RESPONSIBILITY FOR REPAIRING DAMAGE TO THE PRODUCT CAUSED BY MISUSE, CARELESS HANDLING, OR WHERE REPAIRS HAVE BEEN MADE BY OTHERS.

NO OTHER GUARANTEE, WRITTEN OR VERBAL, IS AUTHORIZED BY OR ON BEHALF OF DIRECT ALARM SUPPLIES.

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BULLETIN IM-DAS LCD

HOW TO USE THE LCD Code pad IN THE STANDARD RUN MODE

The LCD code pad performs the same functions as its corresponding LED code pad, to further understand Standard code pad operations refer to the Operator's Manual provided with your control panel.

MASTER MODE USER OPERATIONS

If the LCD codepad is selected to work in master mode, the user operation will alter from that of the Standard mode. Follow the directions listed below for correct operation procedures.

ARM YOUR SYSTEM IN MASTER MODE

To arm your system while the LCD codepad is in master mode:

Enter your four digit user code:

Now select the area number you wish to arm (1,2,3 or 4) followed by [A] to arm.

OR, simply press the [A] key to arm all displayed areas.

NOTE: If "SUPPRESS Zone STATUS" was disabled in the Code pad programming options then faulted and or Isolated zones will be displayed during the exit time.

DISARM YOUR SYSTEM IN MASTER MODE

To Disarm your system while the LCD codepad is in master mode:

Enter your four digit user code:

Now select the area number you wish to Disarm (1,2,3 or 4) followed by [D] to Disarm.

OR, simply press the [D] key to arm all displayed areas.

ENTERING THE CHECK FUNCTION

If the LCD codepad is selected to work in master mode, then to enter a specific area and perform standard mode function such as **partial arm, group isolate, chime enable, isolating zones, viewing, faulted or isolated zones, resetting a fire zone by pressing the [#] and initiating on site downloading by pressing [*] [9] [9] [#].** All these operations can be performed via the Check Function as follows:

Enter your four digit user code:

Now select the area (only area(s) which are assigned to your code will be displayed) you wish to perform the desired operation (1,2,3 or 4). Note that all required operations must be performed in the area for which the operation will affect. One exception to is initiating on site download. Once in the Check Mode standard operational procedures apply.

EXITING THE CHECK FUNCTION

To exit the Check Function:

Press;

OR, wait twenty seconds for automatic exit.

USING THE NEXT FUNCTION

The Next Function is provided to allow the viewing of the Armed Status of individual area and/or the Quick Arming or Disarming of the selected area.

Proceed to the next function by entering your four digit user code:

Now select the first area you wish to view or alter the Armed State.

If the area selected is armed then [D] will disarm that area.
If the areas selected is disarmed then [A] will arm that area.

Press [B] to move the display to the next area to which your code has access: **Note**: at the codepad LED's will also follow the condition of the displayed area.

OPERATION OF SPECIAL FUNCTION KEYS

The DAS Liquid Crystal Display (LCD) Code pad can be used to operate your DAS Security Control

with virtually the same steps described in your Operator's Manual. With this more powerful and versatile LCD code pad, additional features are available and are accessed with the four special function keys on the left side of the number keys. These keys, labelled {A}, {B}, {C}, and {D} below:

[A] KEY: The [A] key serves as a "Help" key. It only functions when the LCD display shows the message, "TYPE A FOR HELP". Multiple messages will be displayed in sequence every 3 seconds, or will scroll with no delay each time the [A] key is pressed.

[B] KEY: The [B] key adjusts the brightness of the LCD back lighting to levels 1-6, with 6 as the brightest. The factory setting is 6. To turn off only the LCD backing, press [B][8]. To turn off only the code pad LEDs, press [B][9]. To turn off all lighting, press [B][0]. All lights will return to the "ON" mode when any key is pressed, or when an alarm condition, a fire or trouble condition, or a pre-alarm occurs.

[C] KEY: The [C] key is used to quickly program auxiliary codes in the run mode. The display asks for User number, Master Code, and new Auxiliary Code before automatically programming this information into the Security Control. NOTE! This function can only be used when the DAS Security Control is disarmed.

LIST OF [C] FUNCTIONS:

CHANGING USER CODES

[C][0][1] through **[C][3][0]** (note the DL250 only provides 15 user coders) allows you to program user codes 01 to 30 in the run mode by using the master code or the existing user code to gain access. The code pad will not allow you to program two users with the same four digit code.

CHANGING THE PRIMARY PHONE NUMBER

[C][7][2] + <MASTER CODE> is used to change the primary phone number from the run mode. Only use this function when self monitoring is required.

CLEAR ALARM MEMORY

[C][9][5] + <MASTER CODE> is used to clear the alarm memory, refer to the special key [D][0] function for more detail on alarm memory.

VIEWING AND CHANGING THE PANEL CLOCK

[C][9][7] + <MASTER CODE> is used to view or change the panel clock**.** Enter correct digits to change the setting or press [#] to view and move.

When this function is entered, the first display is the "DAY OF WEEK" [01] is equal to Sunday through [07] which is equal to Saturday. To change the day of the week press [01] through [07] for the correct setting or [#] to move on to the next display.

The next display is the "**MONTH/DAY/YEAR**", to change to correct setting enter a two digits for the month, [01] = January through [12] = December, then enter two digits for the day of the month, [01] through [31], finally enter two digits for the year [95] = 1995. Enter **[#]** to move with out changing

current settings.

The final display is the "TIME", to change current time setting enter a four digit which represents the 24 hour time value. [0000] = midnight through [2359] = 11:59PM. Enter **[#]** to move with out changing current settings.

VIEW THE INTERNAL LOG:

[C][9][8] + <MASTER CODE> is used to view the internal log**.**
The display will asks for a "**MONTH/DAY**" if you wish to view the records from a particular date. If you want to start with the most recent event, press [A]. To advance through the log press the [A] key. Press [#] exit this function.

MANUAL MASTER MODE:

[C][A] Plus any four digit user code will switch a standard mode LCD code pad to temporary master mode. Refer to "**MASTER MODE USER OPERATION**" in this manual for more detail.

[D] KEY: The **[D]** key adjusts the LCD screen viewing angle for various heights by pressing **[D]** and a number [1] through [3]. The lowest viewing angle is 3 and the highest is 1. The factory setting is 2. The [D] key also causes the LCD screen to display Alarm Memory when **[D][0]** is pressed. Faulted and/or isolated zones from the last alarm event, are then displayed on the LCD screen.

VIEW Zone MESSAGE:

[D][A] Allows you to view the custom zone messages from the run mode. This display will ask for a starting zone number from [01] through [32] (note: the DL250 can only have 16 zones). Enter the starting zone number then press **[A]** or press **[A]** to start at zone one. Press **[A]** to scroll through each zone. Press **[#]** exit this function.

NOTE! After pressing keys [B], [C], or [D], the display will revert back to the standard message if no additional keypresses are made within 10 seconds. To escape any of the special function modes and return to the standard message screen, press the [#] key.

Other code pad functions, including the dual keypress alarms work exactly like the standard code pad described in your Operator's Manual. If you have any questions about the operation of this code pad, or any other question in regard to your security system, you should call the company that installed the DAS Security Control in your home or business.

HOW TO OPERATE THE LCD CODEPAD IN A NON MASTER MODE

Refer to the normal user manual for a detailed description of Control Panel operation.